

AMENDMENTS TO THE ABSTRACT:

Please replace the abstract with the following amended abstract:

The concentration of air ~~or other agents~~ in a fluid delivery line is determined by monitoring ~~agent~~ output signals corresponding to the amount of air detected in the fluid and processing those ~~agent~~ signals along with information ~~regarding the age of each agent signal~~ as to the time or total volume of fluid dispensed since each signal was produced. The processor determines a ~~primary agent~~ an air concentration value based on the received ~~agent~~ signal values, with the ~~primary agent~~ air concentration value determined by giving greater weight to more recent ~~agent~~ signal values. Where the ~~primary agent~~ air concentration value exceeds a ~~primary threshold~~ predetermined value, an alarm signal may be activated or fluid delivery may be stopped. The processor also may determine a secondary ~~agent~~ air concentration value, which may be determined from the ~~actual agent~~ raw signal values instead of the weighted ~~agent~~ signal values. Where the secondary ~~agent~~ air concentration value exceeds a ~~secondary second~~ predetermined threshold ~~value~~, an alarm signal may be activated or fluid delivery may be stopped.